

XI. *An Account of a Collection of Rhopalocera made on the Anambara Creek in Nigeria, West Africa.* By PERCY I. LATHY, F.E.S.

[Read February 4th, 1903.]

PLATE VIII.

THE collection of Rhopalocera dealt with in the following pages is the largest that has yet been made on the Niger River; in all it contains two hundred and twenty-six species, twelve of which are undescribed.

Messrs. Godman, Salvin, and Druce, P.Z.S., 1884, pp. 219–229, and Mr. G. H. Carpenter, Proc. R. Dubl. Soc. (2) 8, pp. 304–310, 1895, have written two papers on Lepidoptera from this district; these two papers enumerate seventy-two species, seventeen of which are not in the collection here described, the names of these I give later.

I am indebted to Mr. Alex. J. Braham, the collector, for the following information on the district.

The Anambara Creek flows into the Niger River just above Asaba; the mouth of the creek is about three hundred miles from Forcados, and it extends (navigably) about a hundred miles inland. The whole country is flat, with only a few slight hills about sixty to eighty metres above sea-level; the banks of the waterways are densely clothed with forest and undergrowth, away from the water open bush prevails. The vegetation is chiefly of mushroom growth, soft sap trees of the “paw-paw” type, mingled largely with cocoanut and date-palms; ebony and mahogany are also to be found, and small mangroves are in profusion; orchids are rarely seen in flower, in fact flowers, the majority of which are glaring yellow in colour, are seldom seen. The rainfall is very heavy, the difference in the height of the rivers in wet and dry seasons being as much as sixty feet; in the wet season the whole country is practically under water, the high forest trees appearing merely as bushes on its surface.

The season may be divided as follows: middle of January to May intensely hot and damp, with many fierce tornadoes; the weather is then cooler till July, when the

rainy season commences and lasts till the second week in October; during November and December dry winds prevail, and all vegetation is dried up, the temperature at noon rising as high as 110° Fahr. in the shade, and dropping to 60° Fahr. at night.

I wish to express my thanks to Mr. Francis A. Heron, of the Natural History Museum, South Kensington, for his assistance in determining many of the species, and to Mr. Henley Grose-Smith, who was so kind as to look over the new Lycænidæ.

The types of all the new species here described are in the collection of Mr. Herbert J. Adams.

1. *Danais chrysippus.*
Pap. chrysippus, L., Syst. Nat., ed. 10, p. 471 (1758).
The variety *alcippus*, Cram., appears to be the prevalent form.
2. *Danais petiverana.*
D. petiverana, D. and H., Gen. D. L., p. 93 (1847).
3. *Amauris vashti.*
D. vashti, Butl., Cist. Ent. i, p. 1 (1865).
4. *Amanris niavius.*
Pap. niavius, L., Syst. Nat., ed. 10, p. 470 (1758).
5. *Amauris psyttalea.*
A. psyttalea, Plötz, S. E. Z. xli, p. 189 (1880).
6. *Amauris hecate.*
D. hecate, Butl., P. Z. S. 1866, p. 44.
7. *Elymnias phegea.*
Pap. phegea, Fabr., Ent. Syst. iii, 1, p. 132 (1793).
8. *Elymnias bambakoo.*
Mel. bambakoo, Westw., Gen. D. L., p. 405 note, t. 68, f. 3 (1851).
9. *Melanitis leda.*
Pap. leda, L., Syst. Nat., ed. 10, p. 474 (1758).
10. *Gnophodes parmeno.*
G. parmeno, D. and H., Gen. D. L., t. 61, f. 2 (1851).
11. *Bicyclus phalanthus.*
B. phalanthus, Stgr., Exot. Schm., p. 229, t. 82 (1887).
12. *Mycalesis tenuius.*
M. tenuius, Hew., Exot. Butt. Mycalesis, t. 8, f. 55, 56 (1865).

13. *Mycalesis ignobilis.*
M. ignobilis, Butl., Trans. Ent. Soc. Lond., 1870,
p. 124.
 14. *Monotrichitis sanduce.*
Mycalesis sanduce, Hew., Exot. Butt. Mycalesis, t. 10,
f. 65 (1877).
 15. *Monotrichitis milyas.*
Mycalesis milyas, Hew., Exot. Butt. Mycalesis, t. 6,
f. 34 (1864).
 16. *Monotrichitis safitza.*
Mycalesis safitza, Hew., Gen. D. L. ii, p. 394 note,
t. 66, f. 3 (1851).
 17. *Monotrichitis vulgaris.*
Mycalesis vulgaris, Butl., Cat. Satyr., p. 130, t. 3, f. 8
(1868).
 18. *Monotrichitis nebulosa.*
Mycalesis nebulosa, Feld., Reise Novar. Lep., p. 502
(1867).
- All the specimens belong to the form *agraphis*, Karsch.
19. *Monotrichitis dorothea.*
Pup. dorothea, Cram., Pap. Exot. iii, p. 19, t. 204,
f. E, F. (1799).
 20. *Ypthima doleta.*
Y. doleta, Kirby, Pr. R. Dublin Soc. (2) ii, p. 336
(1880).
 21. *Ypthima simplicia.*
Y. simplicia, Butl., An. N. H. (4) xviii, p. 481 (1876).
 22. *Aeræa admatha.*
A. admatha, Hew., Exot. Butt. Acrea, t. 3, f. 16, 17
(1865).
 23. *Aeræa scis.*
A. scis, Feisth., Ann. E. Fr. (2) viii, p. 247 (1850).
 24. *Aeræa camæna.*
A. camæna, Dru., Ill. Exot. Ins. ii, p. 12, t. 7, f. 2
(1773).
 25. *Aeræa zetes.*
Pup. zetes, L., Syst. Nat., ed. 10, p. 487 (1758).
 26. *Aeræa egina.*
Pup. egina, Cram., Pap. Exot. i, p. 128, t. 81, f. C, D
(1775).

27. *Aeræa abdera.*

A. abdera, Hew., Exot. Butt. Aeræa, t. 1, f. 1, 2 (1852).

28. *Aeræa pseudeginia.*

A. pseudeginia, Westw., Gen. D. L., p. 531 (1852).

29. *Aeræa terpsichore.*

Pap. terpsichore, L., Syst. Nat., ed. 10, p. 466 (1758).

30. *Aeræa vinidia.*

A. vinidia, Hew., Ent. M. Mag. xi, p. 130 (1874).

31. *Aeræa bonasia.*

Pap. bonasia, Fabr., Syst. Ent., p. 464 (1775).

32. *Aeræa pharsalus.*

A. pharsalus, Ward, Ent. M. Mag. viii, p. 81 (1871).

33. *Aeræa encedon.*

Pap. encedon, L., Syst. Nat., ed. 10, p. 488 (1758).

A variable series, including several examples of *ab aleippina*, Auriv.

34. *Aeræa pentapolis.*

A. pentapolis, Ward, Ent. M. Mag. viii, p. 60 (1871).

A variable series showing specimens intermediate between the type, and the form described by Oberthür under the name of *thelestis*; this name will therefore have to sink as a synonym.

35. *Aeræa orestia.*

A. orestia, Hew., Ent. M. Mag. xi, p. 131 (1874).

36. *Aeræa parrhasia.*

Pap. parrhasia, Fabr., Ent. Syst. iii, 1, p. 175 (1893).

37. *Aeræa pencaleos.*

A. pencaleos, Ward, Ent. M. Mag. viii, p. 60 (1871).

38. *Aeræa lycoa.*

A. lycoa, Godt., Enc. Meth. ix, p. 239 (1819).

39. *Aeræa jodutta.*

Pap. jodutta, Fabr., Ent. Syst. iii, 1, p. 175 (1793).

The series includes ♀ *ab. carmentis*, D. and H.

40. *Planema epæa.*

Pap. epæa, Cram., Pap. Exot. iii, p. 64, t. 230, f. B, C (1779).

41. *Planema consanguinea.*
P. consanguinea, Auriv., Ent. Tidskr. xiv, p. 282, f. 8 (1893).
42. *Planema camerunica.*
P. camerunica, Auriv., Ent. Tidskr. xiv, p. 282, t. 6, f. 4, 5 (1893).
43. *Planema umbra.*
Pap. umbra, Dru., Ill. Exot. Ins. iii, p. 23, t. 18, f. 1, 2 (1782).
44. *Planema vestalis.*
Acræa vestalis, Feld., Reise Novar. Lep., p. 369, t. 46, f. 8, 9 (1865-7).
45. *Atella phalantha.*
Pap. phalantha, Dru., Ill. Exot. Ins. i, p. 41, t. 21, f. 1, 2 (1773).
46. *Hypanartia delius.*
Pap. delius, Dru., Ill. Exot. Ins. iii, p. 18, t. 14, f. 5, 6 (1782).
47. *Pyrameis cardui.*
Pap. cardui, L., Syst. Nat., ed. 10, p. 475 (1758).
48. *Preeis maulagascariensis.*
Junonia madagascariensis, Guén., Vinson, Voy. Mad. Lep., p. 37 (1864).
49. *Precis elelia.*
Pap. elelia, Cram., Pap. Exot. i, p. 33, t. 21, f. E, F (1775).
50. *Precis sophia.*
Pap. sophia, Fabr., Ent. Syst. iii, 1, p. 248 (1793).
51. *Precis octavia.*
Pap. octavia, Cram., Pap. Exot. ii, p. 60, t. 135, f. B, C (1777).
52. *Precis pelarga.*
Pap. pelarga, Fabr., Syst. Ent., p. 513 (1775).
53. *Precis laodice.*, Cram., Pap. Exot. ii, p. 64, t. 138, f. G, H. (1777).
54. *Precis milonia.*
P. milonia, Feld., Reise Novar. Lep., p. 403 (1867).
55. *Precis terea.*
Pap. terea, Dru., Ill. Exot. Ins. ii, p. 32, t. 18, f. 3, 4 (1773).

56. *Precis chorimene.*
Vanessa chorimene, Guér., Icon. R. Anim., p. 476
 (1844).
57. *Catacroptera eloantha.*
Pap. eloantha, Cram., Pap. Exot. iv, p. 93, t. 338,
 f. A, B (1781).
58. *Salamis temora.*
S. temora, Feld., Reise Novar. Lep., p. 404 (1867).
59. *Salamis anaecardii.*
Pap. anaecardii, L., Syst. Nat., ed. 10, p. 467 (1758).
60. *Hypolimnas misippus.*
Pap. misippus, L., Mus. L. Ulr., p. 264 (1764).
61. *Hypolimnas dubius.*
Pap. dubius, Palisot, Ins. Afr. et Amér., p. 238, Lep.
 t. 6, f. 2a, 2b (1805).
62. *Hypolimnas anthedon.*
Diadema anthedon, Doubl., Ann. N. H. xvi, p. 181
 (1845).
63. *Kallima rumia.*
K. rumia, Doubl. and Westw., Gen. D. Lep., p. 325,
 t. 52, f. 2 (1850).
64. *Kallima cymodoce.*
Pap. cymodoce, Cram., Pap. Exot. ii, p. 5, t. 99, f. G, H
 (1777).
 A single male of this rare species.
65. *Eurytela hiervas.*
Pap. hiervas, Dru., Ill. Exot. Ins. iii, p. 17, t. 14, f. 1,
 2 (1782).
66. *Eurytela dryope.*
Pap. dryope, Cram., Pap. Exot. i, p. 125, t. 78, f. E, F
 (1775).
67. *Neptulopsis ophione.*
Pap. ophione, Cram., Pap. Exot. ii, p. 27, t. 14, f. E, F
 (1777).
68. *Ergolis enotrea.*
Pap. enotrea, Cram., Pap. Exot. iii, p. 73, t. 236, f.
 A, B (1779).
69. *Mesoxantha ethosea.*
Pap. ethosea, Dru., Ill. Exot. Ins. iii, p. 51, t. 37, f. 3,
 4 (1782).

70. *Byblia götzius.*
Pap. götzius, Herbst, *Naturs. Schm.* ix, p. 193, t. 258,
f. 3, 4 (1798).
71. *Crenis amulia.*
Pap. amulia, Cram., *Pap. Exot.* ii, p. 128, t. 180, f. C
(1777).
72. *Cyrestis camillus.*
Pap. camillus, Fabr., *Spec. Ins.* ii, p. 11 (1781).
73. *Neptis nemetes.*
N. nemetes, Hew., *Exot. Butt. Neptis*, t. 1, f. 1, 2
(1868).
74. *Neptis agatha.*
Pap. agatha, Stoll, in *Cramer's Pap. Exot.* iv, p. 76,
t. 327, f. A, B (1780).
75. *Neptis melicerta.*
Pap. melicerta, Dru., *Ill. Exot. Ins.* ii, p. 34, t. 19,
f. 3, 4 (1773).
76. *Pseudacraea lucretia.*
Pap. lucretia, Cram., *Pap. Exot.* i, p. 71, t. 45, f. C, D
(1775).
77. *Pseudacraea boisduvalii.*
Diadema boisduvalii, Doubld., *Ann. N. H.* xvi, p. 180
(1845).
78. *Pseudacraea eurytus.*
Pap. eurytus, Linn., *Syst. Nat.*, ed. 10, p. 487 (1758).
79. *Pseudacraea striata.*
P. striata, Butl., *Cist. Ent.* i, p. 215 (1874).
80. *Pseudacraea semire.*
Pap. semire, Cram., *Pap. Exot.* iii, p. 3, t. 194, f. B, C
(1779).
81. *Pseudoneptis cœnobita.*
Hesperia cœnobita, Fabr., *Ent. Syst.* iii, 1, p. 247
(1793).
82. *Catuna angustata.*
Euomma angustatum, Feld., *Reise Novar. Lep.*, p. 425
(1867).
83. *Aterica galene.*
Pap. galene, Brown, *New Ill. of Zool.*, p. 94, t. 37
(1776).

84. *Hamanumida dædalus.*
Pap. dædalus, Fabr., Syst. Ent., p. 482 (1775).

85. *Euphædra ruspina.*
Romalaeosoma ruspina, Hew., Exot. Butt. Romalaeosoma, t. 2, f. 6, 7 (1865).

86. *Euphædra cleus.*
Pap. cleus, Dru., Ill. Exot. Ins. iii, p. 14, t. 12, f. 1, 2 (1782).

87. *Euphædra ceres.*
Pap. ceres, Fabr., Syst. Ent., p. 504 (1775).

88. *Euphædra nigrocilia*, sp. nov. (Plate VIII, fig. 1.)

Upper-side.—Fore-wing blue-black, shot with greenish along costa and about apex ; a large oval, greenish-yellow patch beyond cell, between upper discoidal and upper median nervules ; a large triangular yellowish-green patch on inner margin. Hind-wing shining blue, with yellowish-green discoidal patch ; outer margin black, widely so at apex ; two large black spots near margin between upper and lower median nervules.

Under-side.—Fore-wing greenish-yellow, inner margin slate colour, outer margin and apex greenish ; the following black markings : a spot in cell near base, two larger spots beyond, and a bar at end of cell, with another bar outside ; a spot between upper and middle median nervules, and an obliquely placed bar between middle and lower median nervules ; a submarginal row of large spots increasing in size towards anal angle. Hind-wing greenish-yellow, deep yellow at anal angle and inner margin, greenish on outer margin, and with the following black markings : a curved sub-basal band extending nearly half-way along costa, a round spot in upper part of cell, and an oval spot at end of cell ; a series of four patches between subcostal nervure, and submedian nervule, decreasing in size towards latter, a submarginal series of large patches. Cilia of both wings black above and below.

Exp. 78 millim.

Allied to *E. ceres*, Cram., from which it differs in the fore-wing having a subapical patch instead of a band, the shining blue ground colour of hind-wing, and the black cilia.

89. *Euphædra themis.*

- Najas hilaris themis*, Hübn., Exot. Schm. 1, t. 60 (1806-16).

90. *Euphædra janetta.*

Romalæosoma janetta, Butl., P. Z. S. 1871, p. 80.

91. *Euphædra aurata.*

E. aurata, Carpenter, Proc. R. Dubl. Soc. (2) viii, p. 305 (1895).

92. *Euphædra aureofasciata*, sp. nov.

Upper-side.—Fore-wing black, costa shot with green; a wide golden-yellow band extending from costa to below middle median nervule; a triangular bluish-green patch on basal half of inner margin, the centre of this patch golden. Hind-wing shining bluish-green, outer margin widely black, a faint trace of golden-yellow on discocellulars.

Under-side.—Fore-wing yellowish-green, with inner margin black below lower median nervule, and the following black markings: two large spots in basal half of cell, each touching median nervure; two round spots in centre of, and a bar at end of cell; a series of five patches beyond cell, of which the lowest is the largest, and obliquely placed, a submarginal series of square patches; outer margin blackish. Hind-wing golden-yellow, greenish about cell, and along outer margin; a wide crimson band along costa extending from base to near apex; the following black markings: a large spot in upper part of cell with a small one below it, a bar at end of cell, four markings beyond cell, of which the upper and lower are nearer the base than the others; the upper is the largest, and the lower much the smallest of this series; a submarginal series of large patches, the inner edges of which are dentate; outer margin black. Cilia of hind-wing greyish between nervules.

Exp. 90 millim.

This is probably a local race of *E. crockeri*, Butl., from which it may be distinguished by the bright golden-yellow band of the fore-wing and the darker cilia.

Only a single female was obtained, but there are several specimens in the Natural History Museum from Nigeria which agree with that here described.

93. *Euphædra medon.*

Pap. medon, L., Cent. Ins., f. 19 (1763).

94. *Euphædra harpalyce.*

Pap. harpalyce, Cram., Pap. Exot. ii, p. 78, t. 145, f. D, E (1779).

95. *Euphaedra losinga.*

Romalæosoma losinga, Hew., Exot. Butt. Romalæosoma, t. 1, f. 1 (1864).

One male and two females were taken.

96. *Euryphene theognis.*

E. theognis, Hew., Exot. Butt. Euryphene, t. 1, f. 3, 4 (1864).

97. *Euryphene mardania.*

Pap. mardania, Fabr., Ent. Syst. iii, 1, p. 249 (1793).

98. *Euryphene sophus.*

Pap. sophus, Fabr., Ent. Syst. iii, 1, p. 46 (1793).

99. *Euryphene latitia.*

E. latitia, Plötz, S. F. Z. xli, p. 192 (1880).

100. *Euryphene tentyris.*

E. tentyris, Hew., Exot. Butt. Euryphene, t. 5, f. 21, 22 (1866).

101. *Diestogyna veronica.*

Pap. veronica, Cram., Pap. Exot. iv, p. 73, t. 325, f. C, D (1780).

102. *Euryphura chalecis.*

Harma chalecis, Feld., Wien. Ent. Mon. iv, p. 234 (1860).

103. *Euryphura plautilla.*

Euryphene plautilla, Hew., Exot. Butt. Euryphene, t. 3, f. 14, 15 (1865).

One male has both wings fulvous to beyond middle; the form *claudianus*, Druce, is also fulvous, and has hitherto been regarded as a female aberration; it is possible that this specimen is the male of *claudianus*, and a distinct species.

104. *Cymothoë theobene.*

Harma theobene, D. and H., Gen. D. Lep., p. 288, t. 40, f. 3 (1850).

105. *Cymothoë egesta.*

Pap. egesta, Cram., Pap. Exot. i, p. 72, t. 46, f. B, C (1775).

106. *Cymothoë beckeri.*

Diademi beckeri, H. S., Aus. Schm. Tagf., f. 81 (1850).

107. *Cymothoë coccinata*.

Harma coccinata, Hew., Exot. Butt. Harma, t. 6, f. 24, 15 (1874).

108. *Euptera sirene*.

E. sirene, Staud., Iris, iv, p. 100, t. 1, f. 6 (1891).

A single specimen of this extremely rare species.

109. *Euxanthe curinome*.

Pap. curinome, Cram., Pap. Exot. i, p. 109, t. 70, f. A (1775).

An aberration of the female was obtained, in which the white markings are more extended, and the black ground along median nervure and nervules powdered with white scaling.

110. *Charaxes brutus*.

Pap. brutus, Cram., Pap. Exot. iii, p. 82, t. 241, f. E, F (1779).

111. *Charaxes epijasins*.

C. epijasins, Reiche, in Ferret and Galin. Voy. Abyss. Ent., p. 469, t. 32, f. 1, 2 (1849).

Only one specimen in the collection, a female, and unfortunately in very bad condition.

112. *Charaxes castor*.

Pap. castor, Cram., Pap. Exot. i, p. 61, t. 37, f. C, D (1775).

113. *Charaxes ctesipe*.

Nymphalis ctesipe, Godt., Enc. Méth. ix, p. 355 (1823).

114. *Charaxes cynthia*.

C. cynthia, Butl., P. Z. S. 1865, p. 626, t. 36, f. 3.

The two males received agree best with examples from Accra, inasmuch as the discal band of hind-wing above is buff yellow, edged with orange rufous, but differs below in the much wider discal silvery band. The female agrees best with a specimen from the Cameroons.

115. *Charaxes protoclea*.

C. protoclea, Feisth, Ann. E. Fr. (2) viii, p. 260 (1850).

116. *Charaxes antielea*.

Pap. antielea, Dru., Ill. Exot. Ins. iii, p. 36, t. 27, f. 5, 6 (1782).

Two males only, they belong to the typical form, not that described by Rothschild under the name of *adusta*.

117. *Charaxes ethocles.*

Pap. ethocles, Cram., Pap. Exot. ii, p. 34, t. 119, f. D, E (1777).

118. *Charaxes tiridates.*

Pap. tiridates, Cram., Pap. Exot. ii, p. 100, t. 161, f. A, B (1777).

119. *Charaxes numenes.*

C. numenes, Hew., Exot. Butt. Charaxes, t. 2, f. 9–11 (1859).

120. *Charaxes varanes.*

Pap. varanes, Cram., Pap. Exot. ii, p. 100, t. 160, f. D, E (1777).

121. *Charaxes fulvescens.*

Palla varanes, var. *fulvescens*, Auriv., Ent. Tidskr. xii, p. 216 (1891).

122. *Charaxes laodice.*

Pap. laodice, Dru., Ill. Exot. Ins. iii, p. 34, t. 26, f. 1, 2 (1782).

123. *Charaxes eupale.*

Pap. eupale, Dru., Exot. Ins. iii, p. 7, t. 6, f. 3 (1782).

124. *Monura zingha.*

Pap. zingha, Cram., Pap. Exot. iv, p. 53, t. 315, f. B, C (1780).
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125. *Liphythea labdaca.*

L. labdaca, Westw., Gen. D. Lep., p. 413 note, t. 68, f. 6 (1851).

126. *Abisara gerontes.*

Pap. gerontes, Fabr., Spec. Ins. ii, p. 117 (1781).

127. *Telipna actinotina*, sp. nov. (Plate VIII, fig. 2.)

Upper-side.—Fore-wing dark brown, basal half brick-red, darker towards base and along costa, and bordered on outer edge by a blackish-brown band; two small red patches beyond cell. Hind-wing semi-transparent brown, veins blackish.

Under-side.—Fore-wing as above, but ground colour paler and with a yellowish band beyond dark border of basal red. Hind-wing yellowish-brown, with veins and lines in interspaces blackish; seven small black spots at base.

Exp. 48 millim.

Only a single specimen of this very distinct species was obtained; its nearest ally appears to be *T. parva*, Kirby,

from which it may at once be distinguished by its much greater size. The neuration of hind-wing resembles that of the genus *Mimacraea*, inasmuch as the subcostal nervules are on a long stalk, but the presence of the praecostal nervure serves to separate it from that genus. It is very curious that this species should bear such a strong superficial resemblance to *Actinote*, a South American genus of the Acræinæ.

128. *Pentila pauli*.

P. pauli, Staud., Exot. Schm. i, p. 267 (1888).

129. *Pentila amenaida*.

P. amenaida, Hew., Exot. Butt. Pentila and Liptena, t. 2, f. 8, 9 (1873).

130. *Pentila radiata*, sp. nov. (Plate VIII, fig. 3.)

Upper-side.—Fore-wing fulvous, with broad black margin, the inner edge of which is dentate towards inner margin; costa blackish; two small black spots above and towards end of cell, and a large round black spot at end of cell. Hind-wing fulvous, paler at inner margin and widely bordered with black; a round black spot at end of cell.

Under-side.—Fore-wing fulvous, with black spot as above, outer margin narrowly black, marginal black streaks in interspaces, decreasing in length towards anal angle. Hind-wing fulvous, outer margin narrowly black with marginal streaks as in fore-wing, two very small black spots near base, a large round black spot below costal nervure not far from base, and a similar but somewhat larger spot at end of cell.

Exp. 38 millim.

Nearly allied to *P. pauli*, Stgr., from which it differs in the total absence of discal spots below and in the subcostal spot of the hind-wing below being larger than the cellular spot.

131. *Pentila multipunctata*, sp. nov. (Plate VIII, fig. 4.)

Upper-side.—Fore-wing fulvous, with broad black margin, the inner edge of which is dentate; costa blackish; the following black markings: a small spot above and towards end of cell, and a large round spot at end of cell, three spots near marginal border between upper median nervule and submedian nervure. Hind-wing fulvous, with wide black margin, inner edge of which is dentate; a round black spot at end of cell and a series of seven black spots near

marginal border, the three nearest anal angle being further from the border than the others.

Under-side.—Fore-wing fulvous, outer margin narrowly black, with marginal streaks as in the preceding species, and the following black markings: two pairs and one single spot on costa, a large round spot at end of cell and a curved discal series of seven spots. Hind-wing fulvous, outer margin narrowly black, and streaks as in fore-wing, with the following black markings: a large spot above and two spots below cell near base, a large spot at end of cell, a curved discal series of eight spots, of which that next costa is much the largest.

Exp. 42 millim.

Near to *P. pauli*, Stgr., from which it may be distinguished by the conspicuous discal spots.

132. *Pentila abraxas*.

P. abraxas, D. and H., Gen. D. Lep., t. 77, f. 5 (1852).

133. *Mimaeræa darwinia*.

M. darwinia, Butl., Lep. Exot., p. 104, t. 38, f. 8 (1872).

One pair of this fine species.

134. *Pseuderesia isca*.

Liptena isca, Hew., Exot. Butt. Pentila and Liptena, t. 2, f. 14–16 (1873).

135. *Pseuderesia gordoni*. (Plate VIII, fig. 5.)

P. gordoni, Druce, Ann. Mag. Nat. Hist. (7) xi (Jan. 1903).

136. *Pseuderesia cellularis*.

P. cellularis, Kirby, Ann. N. H. (6) vi, p. 262 (Sept. 1890).

137. *Citrinophila similis*.

C. similis, Kirby, Ann. N. H. (5) xix, p. 366 (1887).

138. *Liptena submacula*, sp. nov. (Plate VIII, fig. 6.)

Upper-side.—Fore-wing white, costa and outer margin bordered with dark brown. Hind-wing white, outer margin bordered with dark brown.

Under-side.—Both wings as above, with exception of an oval black spot at end of cell of hind-wing.

Exp. 32 millim.

This species may be distinguished from *L. simplicia*,

Moschl., its nearest ally, by the black spot at end of cell of hind-wing below.

139. *Liptena undularis.*

L. undularis, Hew., Exot. Butt. Pentila and Liptena, t. 1, f. 7 (1866).

140. *Liptena otlauga.*

L. otlauga, Smith and Kirby, Rhop. Exot. 14, Lycaen. Afr., p. 46, t. 11, f. 9, 10 (1890).

141. *Eresina corynetes.*

E. corynetes, Smith and Kirby, Rhop. Exot., Lycaen. Afr., p. 47, t. 11, f. 7, 8 (1890).

142. *Aslauga marginata.*

Liptena marginata, Plötz, S. E. Z. xli, p. 204 (1880).

143. *Deudorix nomion.*

D. nomion, Stgr., Iris, iv, p. 156, t. 1, f. 11 (1891).

144. *Deudorix eleala.*

Hypolycana eleala, Hew., Ill. D. Lep., p. 52, t. 23, f. 25–27 (1865).

145. *Deudorix camerona.*

D. camerona, Plötz, S. E. Z. xli, p. 201 (1880).

146. *Deudorix odana.*

D. odana, H. H. Druce, Ent. M. Mag. xxiii, p. 204 (1887).

147. *Deudorix caliginosa*, sp. nov. (Plate VIII, fig. 7.)

Upper-side.—Both wings black, shot with rich purplish-blue. Hind-wing with inner margin clothed with black hair; a pale shining purplish sex mark above cell; inner margin pale shining grey.

Under-side.—Fore-wing brownish-grey, with the following white lines inwardly edged with brown: two at end of cell, a double row beyond cell extending from costa to lower median nervule, and a submarginal double row, these being obscure at apex; a large tuft of black hair from middle of inner margin. Hind-wing brownish-grey, a pale-edged dark-brown spot in bend of subcostal nervure, two whitish lines just beyond cell, and some obscure whitish markings between cell and inner margin, two double rows of whitish lines as in fore-wing; a black spot inwardly bordered with red near inner margin, between middle and lower median nervules; anal angle produced into a lobe, black-edged with metallic silvery-blue scales; lower median nervule produced into a long slender black tail tipped with white.

Exp. 34 millim.

The nearest ally of this species appears to be *D. antalus*, Hopff.; its much darker colour at once serves to distinguish it from that species; the tuft of hair on inner margin of the fore-wing below is much longer in *D. livida* than in *D. antalus*.

148. *Deudorix bimaculata.*

Myrina bimaculata. Hew., Trans. Ent. Soc. 1874, p. 353.

149. *Deudorix lorisona.*

Myrina lorisona, Hew., Ill. D. Lep., p. 37, t. 16, f. 48, 49 (1863).

150. *Deudorix antalus.*

Dipsas antalus, Hopff., Monatsb. Akad. Wiss. Berlin, 1855, p. 641.

151. *Myrina silenus.*

Pup. silenus, Fabr., Syst. Ent., p. 531 (1775).

152. *Myrina subornata*, sp. nov. (Plate VIII, fig. 8.)

Upper-side.—Fore-wing black, a brilliant deep blue patch in cell, and a large area of the same colour below cell. Hind-wing black, cell and area below and beyond brilliant deep blue; a deep crimson spot at anal angle; submedian nervure produced into a moderately long white centred black tail.

Under-side.—Fore-wing dark brownish-grey, with a faint purple tinge, paler towards inner margin. Hind-wing dark brownish-grey, with a faint purple tinge; a black bar at end of cell; a curved discal series of irregular black markings, those next inner margin being inwardly edged with whitish; submarginal whitish powdered black marking extending from inner margin to middle median nervule; anal lobe deep crimson inwardly edged with white.

Exp. 38 millim.

This species may be separated from *M. dermoptera*, Wgr., a South African species, by the discal black markings of hind-wings below.

153. *Oxylides faunus.*

Pap. faunus, Dru., Ill. Exot. Ins. ii, p. 2, t. 1, f. 4, 5 (1773).

154. *Hypolyceana hatita.*

H. hatita, Hew., Ill. D. Lep., p. 51, t. 23, f. 21-24 (1865).

155. *Hypolycaena antifaunus.*
H. antifaunus, D. and H., Gen. D. Lep., t. 75, f. 1
(1852).
156. *Hypolycaena lebona.*
H. lebona, Hew., Ill. D. Lep., p. 51 (1865).
157. *Hypolycaena philippus.*
Hesperia philippus, Fabr., Ent. Syst. iii, 1, p. 283
(1793).
158. *Dapidodigma hymen.*
Pap. hymen, Fabr., Syst. Ent., p. 519 (1775).
159. *Jolaus adamsi*, sp. nov. (Plate VIII, fig. 9.)

Upper-side.—Fore-wing with basal half bright shining blue, apical half black. Hind-wing bright shining blue, costa and apex narrowly black, a black line along outer margin; anal lobe white, a black spot edged with dull crimson placed above it on inner margin, and a black spot beyond it on outer margin, and beyond this a faint whitish mark; three slender black-centred white tails, that at the anal angle being much the longest; cilia whitish.

Under-side.—Fore-wing white, brownish towards outer margin, blackish along inner margin, a faint brown submarginal line; a conspicuous tuft of black hair on inner margin. Hind-wing white, a faint brown discal line extending from subcostal nervure to middle median nervule; a black spot with a red patch above it between middle and lower median nervules, the discal line continuing brokenly from it to inner margin; a short faint submarginal red line from near apex; a black spot on inner margin above anal lobe, edged with a triangular red patch; a little blackish scaling near outer margin between anal tails; a narrow black marginal line.

Exp. 42 millim.

Allied to *J. laon*, Hew., but differs in the absence of dark borders to wings below.

160. *Jolaus eurisus.*
Pap. eurisus, Cram., Pap. Exot. iii, p. 47, t. 221, f. D,
E (1779).
161. *Aphnaeus orcas.*
Pap. orcas, Dru., Ill. Exot. Ins. iii, p. 46, t. 34, f. 2, 3
(1782).
162. *Aphnaeus brahami*, sp. nov. (Plate VIII, fig. 10.)

Upper-side.—Fore-wing dark brownish-grey, cell and area beyond and below densely clothed with purplish-blue scaling; outer margin narrowly blackish. Hind-wing dark brownish-grey, cell and lower

discal area densely clothed with purplish-blue scaling, outer margin narrowly blackish, cilia white except at extremities of nervules, where they are blackish; a short black tail at extremity of lower median nervule, and a very long slender black tail at extremity of submedian nervure, the basal third of this tail is dull red and the tip white.

Under-side.—Fore-wing brownish-grey, whitish along inner margin, with the following silver markings all edged with deep dull crimson: a spot at base of cell with one above it on costa, one crossing centre of cell and a large one at end of cell, another on costa beyond cell, and between this and apex two small spots one above the other, a round spot on discoidals not far from outer margin, a figure-of-eight spot on median nervules, and an obliquely-placed oval patch below this, the lower part of this marking being obscure; outer margin narrowly edged with deep dull crimson. Hind-wing brownish-grey, with the following silver markings all edged with deep dull crimson: a spot at base, a small spot in basal half of cell with a large one above it, a large round spot at end of cell, an oval patch between this and inner margin, and a small spot on inner margin; an irregular series of seven discal spots, of which that on the costa is large and almost round, the next three very small, and the remainder long and irregularly shaped; an obscure narrow dark band between this series and outer margin; outer margin narrowly edged with deep dull crimson; anal angle the same colour; tails as above.

Exp. 48 millim.

Very near to *A. argyrocyclus*, Holl., from which it differs in the large circular spot at end of cell in hind-wing below, and the more regular and complete series of silver spots beyond. I have named this species after Mr. Braham the collector.

163. *Spindasis mozambica*.

Aphnaeus mozambica, Bertolini, Mem. Acad. Bologna
2, p. 177, sep., p. 13 (1851).

164. *Axiocerses harpax*.

Pap. harpax, Fabr., Synt. Ent., p. 829 (1775).

165. *Lycænesthes sylvanus*.

Pap. sylvanus, Dru., Ill. Exot. Ins. ii, p. 5, t. 3, f. 2, 3
(1773).

166. *Lycænesthes larydas*.

Pap. larydas, Cram., Pap. Exot. iii, p. 160, t. 282, f. H
(1780).

167. *Lycænesthes flavomaculata*.

L. flavomaculata, Smith and Kirby, Rhop. Exot.
xxvi, Lycaen. Afr., p. 104, t. 23, f. 7, 8 (1893).

168. *Cupido falkensteinii.*
C. falkensteinii, Dewitz, N. Acta Ac. N. Cur. xli, 2,
p. 204, t. 25, f. 5 (1879).
169. *Cupido lingens.*
Pap. lingens, Cram., Pap. Exot. iv, p. 176, t. 379, f.
F, G (1781).
170. *Cupido plinius.*
Hesperia plinius, Fabr., Ent. Syst. iii, 1, p. 284 (1793).
171. *Cupido isis.*
Pap. isis, Dru., Ill. Exot. Ins. ii, p. 6, t. 3, f. 4, 5
(1773).
172. *Cupido mirza.*
C. mirza, Plötz, S. F. Z. xli, p. 203 (1880).
173. *Cupido bæticus.*
Pap. bæticus, L., Syst. Nat. ed. 12, p. 789 (1767).
174. *Cupido malathana.*
Lycæna malathana, Boisd., Faune Madag., p. 25
(1833).
175. *Cupido osiris.*
Lycæna osiris, Hopff., Monatsb. Akad. Wiss. Berlin,
1855, p. 642.
176. *Cupido micrylus.*
Pap. micrylus, Cram., Pap. Exot. iii, p. 160, t. 282, f.
F, G (1780).
177. *Cupido punctatus.*
C. punctatus, Dewitz, N. Acta Acad. N. Cur. xli, 2,
p. 205, t. 26, f. 15 (1879).
178. *Leptosia medusa.*
Pap. medusa, Cram., Pap. Exot. ii, p. 86, t. 150, f. F
(1777).
179. *Leptosia alcesta.*
Pap. alcesta, Cram., Pap. Exot. iv, p. 175, t. 379, f. A
(1781).
180. *Mylothris chloris.*
Pap. chloris, Fabr., Syst. Ent., p. 473 (1775).
181. *Mylothris spica.*
M. spica, Möschl., Verh. z. b. Ges. Wien. xxxiii, p. 277
(1883).

182. *Appias rhodope.*
Pap. rhodope, Fabr., Syst. Ent., p. 473 (1775).
183. *Appias phaola.*
Picris phaola, Doublé, Ann. N. H. (1) xx, p. 63 (1847).
184. *Appias epaphia.*
Pap. epaphia, Cram., Pap. Exot. iii, p. 26, t. 207, f. D, E (1779).
185. *Pieris creona*
Pap. creona, Cram., Pap. Exot. i, p. 148, t. 95, f. C-F (1776).
186. *Pieris calypso.*
Pap. calypso, Dru., Ill. Exot. Ins. ii, p. 30, t. 17, f. 3, 4 (1773).
187. *Pieris eebron.*
P. eebron, Ward, Ent. Mo. Mag. viii, p. 59 (1871).
188. *Teracolus evippe.*
Pap. evippe, L., Syst. Nat. ed. 10, p. 469 (1758).
189. *Catopsilia florella.*
Pap. florella, Fabr., Syst. Ent., p. 479 (1775).
190. *Terias brenda.*
T. brenda, D. and H., Gen. D. Lep., p. 79, t. 9, f. 6 (1847).
191. *Terias senegalensis.*
T. senegalensis, Boisd., Spec. Gén. Lép. i, p. 672 (1836).
192. *Terias desjardinsii.*
Xanthidia desjardinsii, Boisd., Faune Mad., p. 22, t. 2, f. 6 (1833).
193. *Papilio dardanus.*
P. dardanus, Brown, Ill. Zool., p. 52, t. 22 (1776).
 Typical female and one example of ♀ ab. *dionysus*, D. and H., were obtained.
194. *Papilio cynorta.*
P. cynorta, Fabr., Ent. Syst. iii, 1, p. 37 (1793).
195. *Papilio nireus.*
P. nireus, L., Syst. Nat. ed. 10, p. 464 (1758).
196. *Papilio demodoeus.*
P. demodocus, Esp., Aus. Schm., p. 205, t. 51, f. 1 (1798).

197. *Papilio menestheus.*

P. menestheus, Dru., Ill. Exot. Ins. ii, p. 15, t. 9, f. 1, 2 (1773).

198. *Papilio ridleyanus.*

P. ridleyanus, White, Ann. N. H. xii, p. 262, fig. (1843).

A good series, including an interesting aberration in which area above subcostal nervure is entirely white and without black markings with the exception of marginal border; the nervules and interspaces, excepting those between median nervules, are powdered with white scales; the inner margin is also much whiter than in typical specimens; these remarks apply only to the hind-wing, the fore-wing being normal.

199. *Papilio pylades.*

P. pylades, Fabr., Ent. Syst. iii, 1, p. 34 (1793).

200. *Papilio leonidas.*

P. leonidas, Fabr., Ent. Syst. iii, 1, p. 35 (1793).

A large number of males, but only one female.

201. *Papilio poliennes.*

P. poliennes, Cram., Pap. Exot. i, p. 61, t. 37, f. A, B (1775).

202. *Sarangesa synestalmenu*s.

*Antigonus synestalmenu*s, Karsch, Berl. Ent. Zeit. xxxviii, p. 263, t. 6, f. 8 (1893).

203. *Tagiades flesus.*

PaP. flesus, Fabr., Spec. Ins. ii, p. 135 (1871).

204. *Eagris denuba.*

Antigonus denuba, Plötz, S. E. Z. xl, p. 361 (1869).

205. *Abantis elegantula.*

A. elegantula, Mab., Ann. Soc. Ent. France, 1890, p. 32.

206. *Hesperia ploetzi.*

H. ploetzi, Auriv., Ent. Tidsk., 1891, p. 277.

207. *Gorgyra mocquerysii.*

G. mocquerysii, Holl., P. Z. S., 1896, p. 33, t. 5, f. 10.

208. *Oxypalpus fulvus*, sp. nov. (Plate VIII, fig. 11.)

Upper-side.—Fore-wing deep fulvous, clouded with dark brown at base; apex and outer margin narrowly edged with dark brown; a blackish line along submedian nervure, and an oblong black patch beyond cell. Hind-wing deep fulvous; costa, a narrow outer marginal line, and an oblong patch beyond cell black, inner margin blackish; the veins of both wings black towards extremities, cilia deep fulvous.

Under-side.—Fore-wing deep fulvous, a large black patch on basal third of inner margin; a short black fascia, above submedian nervure, from this patch; a narrow black marginal line. Hind-wing deep fulvous, with a narrow black marginal line. Antennæ beneath fulvous.

Exp. 28 millim.

Allied to *O. ignita*, Mab., but exhibits many points of difference, the chief of which are the smaller area of black on the fore-wing above, the exterior part of inner margin of fore-wing below being fulvous, and the antennæ fulvous beneath.

209. *Oxypalpus annulifer*.

O. annulifer, Holl., Ann. N. H. Oct. 1892, p. 293.

210. *Osmodes distincta*.

O. distincta, Holl., P. Z. S., 1896, p. 43, t. 4, f. 16.

211. *Hypoleucus ophiusa*.

Hesperia ophiusa, Hew., Trans. Ent. Soc. Lond. (3) ii, p. 497 (1866).

212. *Cyclopides abjecta*.

C. abjecta, Snell., Tijd. voor Ent. 1872, p. 52, t. 2, f. 15, 16.

213. *Chapra mathias*.

Hesperia mathias, Fabr., Ent. Syst. Suppl., p. 433 (1798).

214. *Parnara micans*.

P. micans, Holl., P. Z. S., 1896, p. 63, t. 3, f. 19.

215. *Baoris alberti*.

B. alberti, Holl., P. Z. S., 1896, p. 67, t. 2, f. 21.

216. *Baoris ogrugana*, sp. nov. (Plate VIII, fig. 12.)

Upper-side.—Fore-wing dark brown, with the following hyaline markings: two spots at end of cell, three very small subapical spots, a series of four discal spots of which the two centre ones are much the largest, and the upper one is much nearer the outer margin than

the others. Hind-wing dark brown, with a hyaline spot in cell, and two very small discal hyaline spots.

Under-side.—Fore-wing dark brown, a short pale submarginal line from apex, hyaline markings as above, the lowest of the discal series being bordered outwardly by an oblong whitish patch. Hind-wing dark brown, with obscure lilac-grey markings on discoidals and near outer margin; hyaline markings as above.

Exp. 32 millim.

Near *P. unistriga*, Holl., but differs in possessing three subapical spots, the upper spot of the discal series being much nearer the outer margin.

217. *Baoris nctopha*.

Hesperia nctopha, Hew., Ann. N. H. (5) i, p. 345 (1878).

218. *Platylesches chamæleon*.

Pamphila chamæleon, Mab., C. R. Soc. Ent. Belg. xxxv, p. 179 (1891).

219. *Pardaleodes incerta*.

Pamphila incerta, Snell., Tijd. voor Ent. 1872, p. 29, t. 10, f. 10-12.

220. *Pardaleodes reichenowi*.

Plastingia reichenowi, Plötz, S. E. Z. xl, p. 357 (1879).

221. *Pteroteinon laufella*.

Hesperia laufella, Hew., Exot. Butt. Hesp., t. 2, f. 28-30 (1867).

222. *Ploetzia cerymica*.

Hesperia cerymica, Hew., Exot. Butt. Hesp., t. 2, f. 20, 21 (1867).

223. *Ploetzia nobilior*.

P. nobilior, Holl., P. Z. S. 1896, p. 95, t. 5, f. 2.

224. *Rhopalocampa forestan*.

Pap. forestan, Cram., Pap. Exot. iv, t. 391, f. E, F (1782).

225. *Rhopalocampa chalybe*.

Ismene chalybe, Westw., D. and H. Gen. D. Lep., t. 79, f. 2 (1852).

226. *Rhopalocampa iphis*.

Pap. iphis, Dru., Ill. Exot. Ins. ii, t. 15, f. 3, 4 (1773).

The following is a list of the species not obtained by Mr. Braham, but which are recorded in the two previously-mentioned papers:—

- Monotrichitis desolata*, Butl.
- Ypthima itonia*, Hew.
- Aeræa cæcilia*, Fabr.
- Atella columbina*, Cram.
- Precis eebrene*, Trim.
- Euryphene phranza*, Hew.
- Charaxes achæmenes*, Feld.
- Lachnoenema bibulus*, Fabr.
- Zeritis neriene*, Boisd.
- Deudorix nomenia*, Hew.
- Lycænesthes princeps*, Butl.*
- Cupido hippoerates*, Fabr.
 ", *lysimon*, Hüb.
- Terias brigitta*, Cram.
- Eronia argia*, Fabr.
- Celænorrhinus galenus*, Fabr.
- Parnara borbonica*, Boisd.

* It is probable that this species was not correctly identified, the type being from Abyssinia.

EXPLANATION OF PLATE VIII.

- Fig. 1. *Euphædra nigrocilia*, sp. nov.
2. *Telipna actinotina*, sp. nov.
3. *Pentila radiata*, sp. nov.
4. " *multipunctata*, sp. nov.
5. *Pseuderlesia gordoni*, Druce.
6. *Liptena submacula*, sp. nov.
7. *Deudorix caliginosa*, sp. nov.
8. *Myrina subornata*, sp. nov.
9. *Jolaus adamsi*, sp. nov.
10. *Aphnæus brahami*, sp. nov.
11. *Oxypalpus fulvus*, sp. nov.
12. *Baoris ogrugana*, sp. nov.



12.



11.



5.



6.



7.



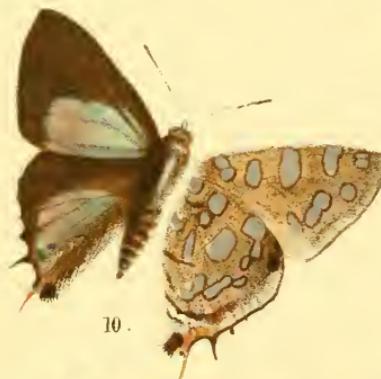
3.



3.



4.



10.



9.



2.



1.